

Patent [19]

[11] Patent Number: 10277402

[45] Date of Patent: Oct. 20, 1998

[54] PHOTOCATALYST COATED BODY

[21] Appl. No.: 09108216 JP09108216 JP

[22] Filed: Apr. 10, 1997

[51] Int. CL⁶ B01J03502 ; B01J03106; C03C01723; C03C01732

[57] ABSTRACT

PROBLEM TO BE SOLVED: To provide a photocatalyst coated body by providing a photocatalyst layer having a sufficient weatherability, durability and self-cleaning property together with photoactivity on the outside surface of a base material such as an outer wall material, a window glass and a transparent plastic member, which are used for intercepting a room from the outside air, and providing a photocatalyst layer having high photoactivity on the inside surface.

SOLUTION: A photocatalyst coated body is provided with photocatalyst layers on the both surface of a base material 1, the 1st photocatalyst layer 2 formed one surface of the base material 1 contains a photocatalyst particle having a 30-100 nm average particle diameter and the 2nd photocatalyst layer formed on another surface 3 of the base material 1 contains a photocatalyst particle having a 5-25 nm average particle diameter. A binder of the 1st photocatalyst layer 2 is composed of a fluororesin and a binder of the 2nd photocatalyst layer 3 is composed of a ceramic sol. The 2nd photocatalyst layer 3 is formed through a vapor-deposited layer of an oxide based ceramic on the base material.
